

(I) Define the following terms:

- (a) *Organic Chemistry* (5%)
- (b) *Functional Groups* (5%)
- (c) *Sigma* bond and *pi* bond (5%)
- (d) *Aliphatic* Compounds and *Aromatic* Compounds (5%)
- (e) *Lewis acid* and *Lewis base* (10%)
- (f) *Ionic bond*、*B*Covalent bond and *Polar covalent bond* (10%)

(II) Give the structures of the major organic products of the following reactions : 5 points each

